

IN THE CLAIMS:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Cancelled)
2. (Cancelled)
3. (Previously Presented) A roll, comprising:
a core; and
a coating comprising a silicate glass material provided over the core, wherein the silicate glass material can be electrically charged and discharged, and comprises:
silica, from about 40 mol% to about 95 mol%;
soda, from about 5 mol% to about 60 mol%;
alumina, from 0 to about 7 mol%;
phosphate, from 0 to about 5 mol%;
potash, from 0 to about 10 mol%;
titania, from 0 to about 20 mol%;
vanadium penta-oxide, from 0 to about 10 mol%;
chromia, from 0 to about 8 mol%;
iron oxide, from 0 to about 5 mol%;
nickel, from 0 to about 5 mol%;
silver, from 0 to about 5 mol%; and
gold, from 0 to about 5 mol%.
4. (Original) The roll of claim 3, wherein the glass material comprises:
silica, about 40 wt%;
soda, about 20 wt%;
alumina, about 1.5 wt%;
phosphate, about 4 wt%;
potash, about 7 wt%;
titania, about 12 wt%;
vanadium penta-oxide, about 6 wt%;
chromia, about 4 wt%;
iron oxide, about 3.5 wt%; and
NiO (Nickel Oxide), about 2 wt%.
5. (Cancelled)

6. (Currently Amended) A roll, comprising:
a core; and
a coating comprising a silicate glass material provided over the core, wherein the glass silicate material can be electrically charged and discharged, ~~and~~ the coating has an arithmetical mean roughness Ra of less than about 1 μm and a maximum waviness of less than about 1 μm , and the coating has a hardness of at least about 4 GPa Knoop.
7. (Currently Amended) A roll, comprising:
a core; and
a coating comprising a silicate glass material provided over the core, wherein the glass silicate material can be electrically charged and discharged, ~~and~~ the coating has an electrical resistivity of from about $1 \times 10^4 \Omega\text{-cm}$ to about $1 \times 10^{14} \Omega\text{-cm}$, and the coating has a hardness of at least about 4 GPa Knoop.
8. (Previously Presented) A roll, comprising:
a core; and
a coating comprising a silicate glass material provided over the core, wherein the glass silicate material can be electrically charged and discharged, and the coating has a hardness of at least about 4 GPa Knoop.
9. (Previously Presented) A roll, comprising:
a core; and
a coating comprising a silicate glass material provided over the core, wherein the glass silicate material can be electrically charged and discharged, and the core has a first coefficient of thermal expansion and the coating has a second coefficient of thermal expansion that differs from the first coefficient of thermal expansion by less than about 1 ppm/ $^{\circ}\text{C}$.
10. (Previously Presented) The roll of claim 3, wherein the glass material is chemically resistant to toner and paper fibers.
11. (Previously Presented) The roll of claim 3, wherein the core comprises a metal.
12. (Previously Presented) A roll, comprising:
a core; and
a coating comprising a silicate glass material provided over the core, wherein the glass silicate material can be electrically charged and discharged, and the core comprises a non-metallic material having a metal coating on which the coating is formed.

13. (Previously Presented) An electrostatographic imaging apparatus comprising the roll according to claim 3.

14. (Cancelled)

15. (Cancelled)

16. (Previously Presented) A charge donor roll, comprising:
a core; and
a coating comprising a silicate glass material formed over the core, wherein the coating can be electrically charged and discharged, and the silicate glass material comprises:

silica, from about 40 mol% to about 95 mol%;
soda, from about 5 mol% to about 60 mol%;
alumina, from 0 to about 7 mol%;
phosphate, from 0 to about 5 mol%;
potash, from 0 to about 10 mol%;
titania, from 0 to about 20 mol%;
vanadium penta-oxide, from 0 to about 10 mol%;
chromia, from 0 to about 8 mol%;
iron oxide, from 0 to about 5 mol%;
nickel, from 0 to about 5 mol%;
silver, from 0 to about 5 mol%; and
gold, from 0 to about 5 mol%.

17. (Original) The charge donor roll of claim 16, wherein the glass material comprises:

silica, about 40 wt%;
soda, about 20 wt%;
alumina, about 1.5 wt%;
phosphate, about 4 wt%;
potash, about 7 wt%;
titania, about 12 wt%;
vanadium penta-oxide, about 6 wt%;
chromia, about 4 wt%;
iron oxide, about 3.5 wt%; and
Ni, about 2 wt%.

18. (Cancelled)

19. (Currently Amended) A charge donor roll, comprising:
a core; and
a coating comprising a silicate glass material formed over the core, wherein the coating can be electrically charged and discharged, ~~and~~ the coating has an arithmetical mean roughness Ra of less than about 1 μm and a maximum waviness of less than about 1 μm , and the coating has a hardness of at least about 4 GPa Knoop.
20. (Currently Amended) A charge donor roll, comprising:
a core; and
a coating comprising a silicate glass material formed over the core, wherein the coating can be electrically charged and discharged, ~~and~~ the coating has an electrical resistivity of from about $1 \times 10^4 \Omega\text{-cm}$ to about $1 \times 10^{14} \Omega\text{-cm}$, and the coating has a hardness of at least about 4 GPa Knoop.
21. (Previously Presented) A charge donor roll, comprising:
a core; and
a coating comprising a silicate glass material formed over the core, wherein the coating can be electrically charged and discharged, and the coating has a hardness of at least about 4 GPa Knoop.
22. (Previously Presented) A charge donor comprising:
a core; and
a coating comprising a silicate glass material formed over the core, wherein the coating can be electrically charged and discharged, and the core has a first coefficient of thermal expansion and the outer coating has a second coefficient of thermal expansion that differs from the first coefficient of thermal expansion by less than about 1 ppm/ $^{\circ}\text{C}$.
23. (Previously Presented) The charge donor roll of claim 16, wherein the glass material is chemically resistant to toner and paper fibers.
24. (Previously Presented) The charge donor roll of claim 16, wherein the core comprises a metal.
25. (Previously Presented) A charge donor roll comprising:
a core; and
a coating comprising a silicate glass material formed over the core, wherein the coating can be electrically charged and discharged, and the core comprises a non-metallic material having a metal coating on which the coating is formed.
26. (Previously Presented) An electrostatographic imaging apparatus comprising a charge donor roll according to claim 16.

27. (Cancelled)
28. (Cancelled)
29. (Cancelled)
30. (Withdrawn - Previously Presented) A method of making a roll, comprising providing a coating over a core, the coating comprising a silicate glass material that can be electrically charged and discharged, wherein the silicate glass material comprises:
 - silica, from about 40 mol% to about 95 mol%;
 - soda, from about 5 mol% to about 60 mol%;
 - alumina, from 0 to about 7 mol%;
 - phosphate, from 0 to about 5 mol%;
 - potash, from 0 to about 10 mol%;
 - titania, from 0 to about 20 mol%;
 - vanadium penta-oxide, from 0 to about 10 mol%;
 - chromia, from 0 to about 8 mol%;
 - iron oxide, from 0 to about 5 mol%;
 - nickel, from 0 to about 5 mol%;
 - silver, from 0 to about 5 mol%; and
 - gold, from 0 to about 5 mol%.
31. (Withdrawn) The method of claim 30, wherein the glass material comprises:
 - silica, about 40 wt%;
 - soda, about 20 wt%;
 - alumina, about 1.5 wt%;
 - phosphate, about 4 wt%;
 - potash, about 7 wt%;
 - titania, about 12 wt%;
 - vanadium penta-oxide, about 6 wt%;
 - chromia, about 4 wt%;
 - iron oxide, about 3.5 wt%; and
 - Ni, about 2 wt%.
32. (Cancelled)
33. (Withdrawn - Previously Presented) A method of making a roll, comprising providing a coating over a core, the coating comprising a silicate glass material that can be electrically charged and discharged, wherein the coating has an arithmetical mean roughness Ra of less than about 1 μm and a maximum waviness of less than about 1 μm .

34. (Withdrawn - Previously Presented) A method of making a roll, comprising providing a coating over a core, the coating comprising a silicate glass material that can be electrically charged and discharged, wherein the coating has an electrical resistivity of from about $1 \times 10^4 \Omega\text{-cm}$ to about $1 \times 10^{14} \Omega\text{-cm}$.

35. (Withdrawn - Previously Presented) A method of making a roll, comprising providing a coating over a core, the coating comprising a silicate glass material that can be electrically charged and discharged, wherein the coating has a hardness of at least about 4 GPa Knoop.

36. (Withdrawn - Previously Presented) The method of claim 30, wherein the core has a first coefficient of thermal expansion and the coating has a second coefficient of thermal expansion that differs from the first coefficient of thermal expansion by less than about 1 ppm/°C.

37. (Withdrawn - Previously Presented) The method of claim 30, wherein the glass material is chemically resistant to toner and paper fibers.

38. (Withdrawn - Previously Presented) The method of claim 30, wherein the coating is applied on the core by electrostatic spraying.

39. (Withdrawn - Previously Presented) The method of claim 30, wherein the coating is applied on the core by wet spraying.

40. (Withdrawn - Previously Presented) The method of claim 30, wherein the core comprises an electrically conductive material on which the outer coating is applied.

41. (Withdrawn - Previously Presented) The method of claim 30, wherein the core comprises a metal outer surface on which the coating is formed.

42. (Previously Presented) The roll of claim 3, wherein the coating has a thickness between about 0.1 mm to about 0.3 mm.

43. (Previously Presented) The charge donor roll of claim 16, wherein the coating has a thickness between about 0.1 mm to about 0.3 mm.

44. (Previously Presented) The method of claim 30, wherein the coating has a thickness between about 0.1 mm to about 0.3 mm.